

ZAYTSEV, M.I., kund. fisino metas. none: Shomsankiy, C.A., lokier tekku. nauk, dotsent New Stends in the development of grossoper, long to TI model 5-in 164. APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

ZAYTSEV, M.I.

USSR/Mathematics - Lattices

Jan/Feb 53

"Aggregate of Orderings of an Abelian Group," M. I. Zaytsev

Uspelini Matemat Nauk, Vol VIII, No 1(53), pp 135-137

States that A. I. Mal'tsev ("Ordered Groups," Iz Ak Nauk SSSR, Series Materia, Vol 13, No 6, 473-482, 1949) found the necessary and sufficient conditions that an abstractly assigned group be able to be ordered, which theory of ordered groups is closely connected with the theory of resolvable groups. Establishes a simple solution for G. Birkhoff's problem 192 to find all nonisomorphic orderings of an Abelian group without torsion possessing a finite number of generatrices (Lattice Theory, p 227, 1948). Submitted 11 Nov 52.

13: Tax

ISLENT'TEV, Petr Alekseyevich; FODIMAN, L.V., redaktor; ZATTSEV, M.I., retsensent; KUFELEVICH, Te.I., redaktor; MEDVEDEV, L.Ta., telling nicheskiy redaktor

[Methods of calculating the demand for dyes and chemical materials by individual cotton mills] Metodika podscheta potrebnosti v krasiteliakh i khimicheskikh materialakh dlia otdelochnukh khlopchato-bymazhnykh fabrik. Pod red. L.V.Fodimana. Moskva, Gos. nauchnotekhn. ind-vo Kninisterstva promyehlennykh tovarov shirokogo potreblenia SSSR, 1954. 79 p.

(Dyes and dyeing--Cotton)

ZAYTSEVA, M.G.; SEDENKO, D.M.

Investigation of cyanide-resistant and nonresistant respiration in wheat. Fiziol. rast. 11 no.2;262-269 Mr-Ap '64. (MIRA 17:4)

1. Timiriasev Institute of Plant Physiology, U.S.S.E. Academy of Sciences, Moscow.

ZAYTSEV, M. G.

Zaytsev, M. G.

"Acute gastro-duodenal hemorrhages during ulcerous infection and its treatment," Trudy "Cospit. khirurg. kliniki (Sverdl. gos. md. un-t), Vol. 1V, 1948, p. 93-107

SO: U-3950, 16 June 53, (Latopis 'Zmurnal 'nykh Statey, No. 5, 1949)

ZAYTSEV, M. G.

Zaytsev, M. G.

"Foreign substance in the submucous membrane of the stomach which simutates ulcerous infection withstenosis of the pylorus," Trudy Gospit. khirurg. kliniki (Swerdl. gos. med. un-t), Vol. IV, 1948, p. 70-71

SO: U-3850, 16 June 53, (Letopis 'Amrnal 'nykh Statey, No. 5, 1949)

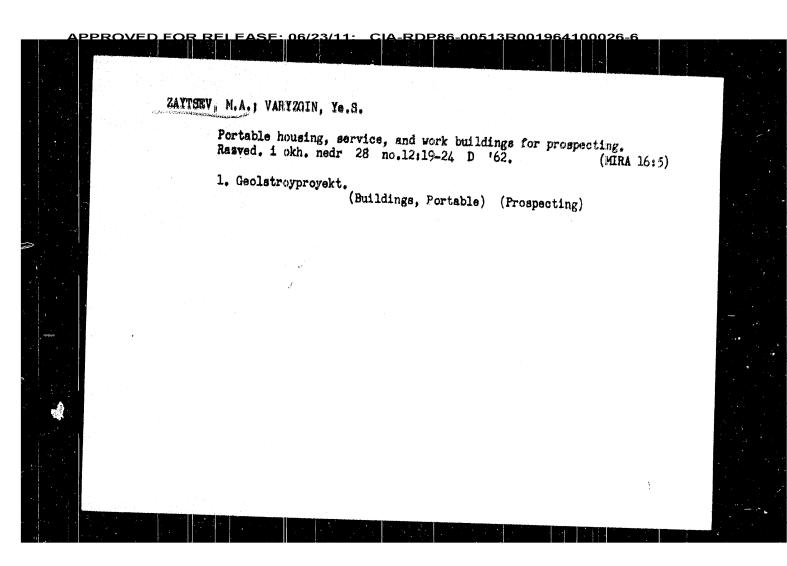
ZAYTSEV, M. C. Zaytsev, M. G. "Ulcerous infection of the stomach and duodenum in children and young people," Trudy Gospit, khirury, klimiki (Overdl. ros. med. in-t), Vol. IV, 10kf, p. 53-69 SO: U-3850, 16 June 53, (Letopsis 'Zharnal 'nykh Stater, No. 5, 19h9)

ZAYTEEV, V. G.

Zaytsev, M. G. "on the problem of etiopathorenesis of ulcorous infections in children and yound people," Trudy Cospit, khirung, kliniki (Sver 1. ros. mod. in-t), Vol. IV,

S0: U-3850, 16 June 53, (Letopsis 'Zhurnal 'nykh Statey, Mo. 5, 19h9)

STEPANITSKIY, N.M.; BRANTKOVSKIY, L.F.; ZAYTSEV, M.F.; ANTONOV, D.G., etv.red.; PEVZNER, A.S., zav.red.izd-va; RUDAKOVA, N.I., tekhn.red. [Uniform time and pay standards for construction, assembly, and repair operations in 1960] Edinye normy i rastsenki na stroitel'nye, montaghnye i remontno-stroitel'nye raboty, 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Sbornik 28. [Assembling the hoisting and conveying equipment] Montash pod "emmo-transportnogo oborudovaniia. No.2. [Non-continuous equipment] Oborudovanie preryvnogo deistviia. 1960. 186 p. (MIRA 13:6) 1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. TSentral'noye normativno-issledovatel'skoye byuro Ministerstwa stroitel'stva elektrostantsiy SSSR (TaNIE MSES) (for Brantkovskiy, Zaytsev). (Wages) (Cranes, derricks, etc.)



ZATTSEV, M.	RELEASE 06/23/1	airline km from Moscow. The wind-elec motor is used in conjunction with a 400 smp-hr storage battery and wibrator power packs.	7, p 63 homemade television receiver with homemade television Ce rograms of the Moscow Television Ce of 110-11 at a distance of 110-11 at a distance of 110-11	
	18			

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ZAYTSEV M.
USSR/Electronics - Television
Wind-Electric Power

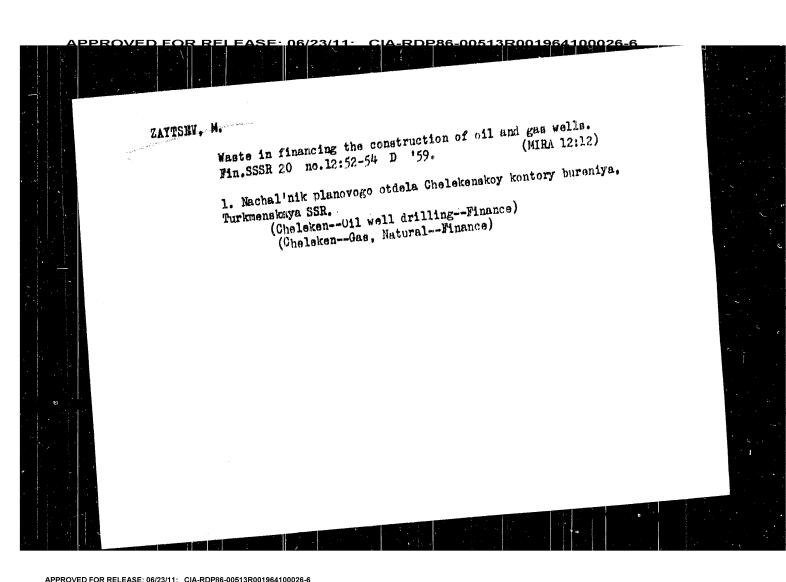
Mar 53

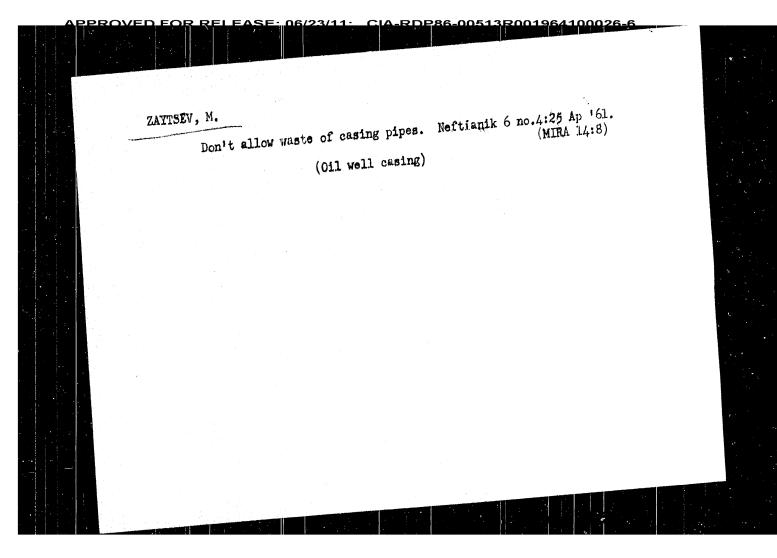
"A Television Receiver Supplied from Storage Batteries", M. Zaytsev, Post 118 km

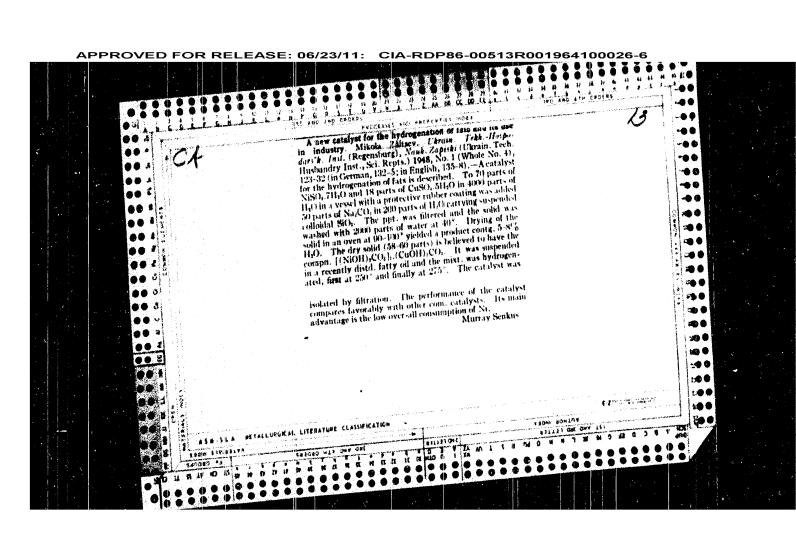
Radio, No 3, pp 37-39

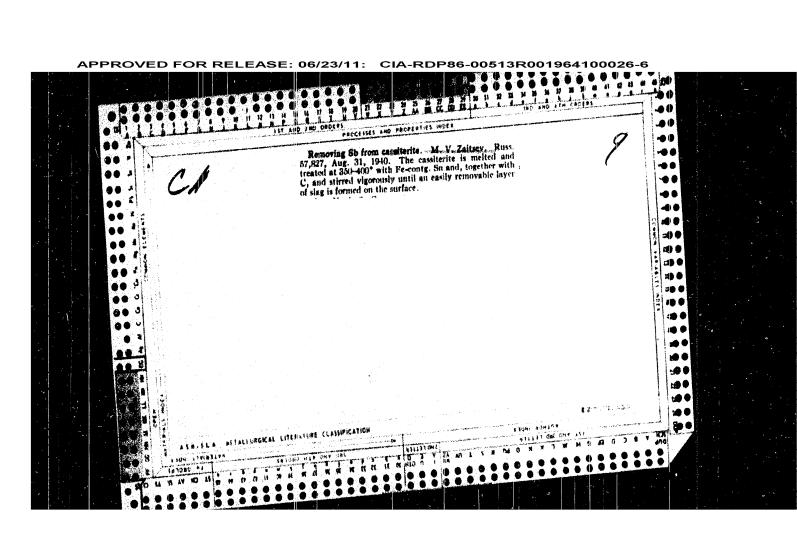
Moscow-Kursk RR

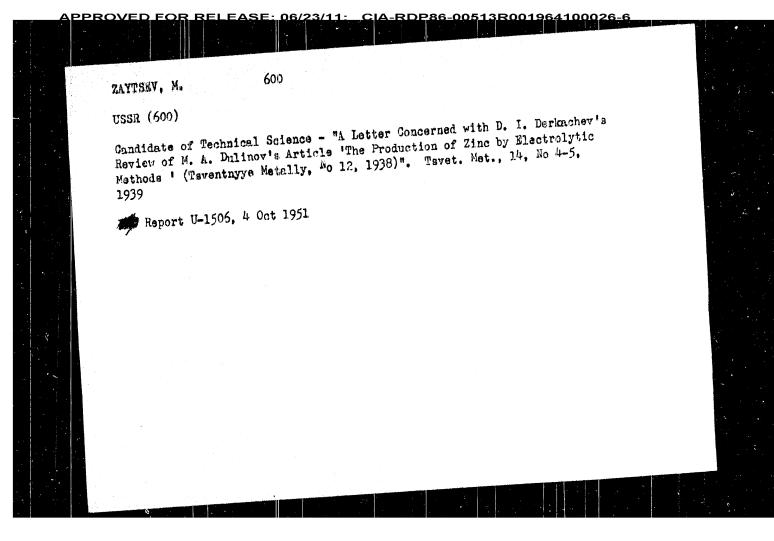
The system includes a 1000-w, 24-v, wind-driven generator (type 4563A, rewound for 6v), a 6-v battery, a vibrator power pack, a charge-discharge board, tolevision receiver, and a "Rodina-47" receiver with an ultrajshort-wave with the generator is used to charge the storage batteries and the vibrator power pac: supplies the plates and screen grids of the tubes in the tv receiver.

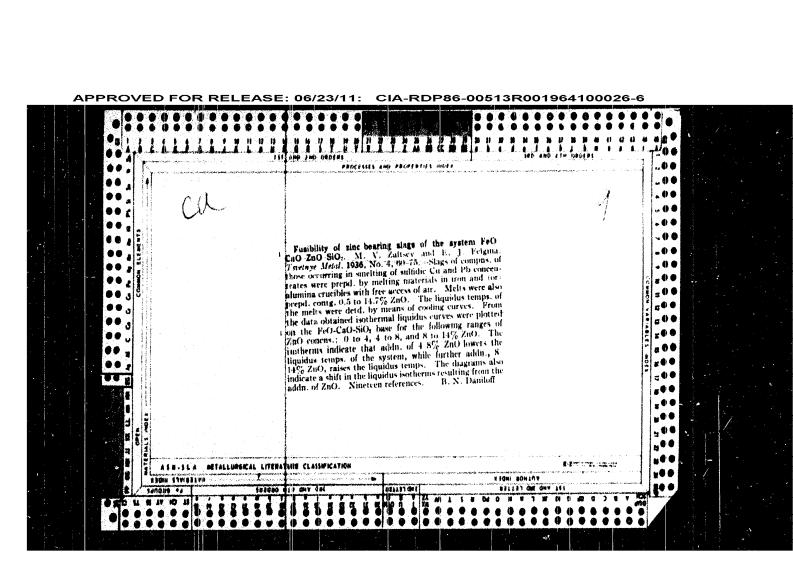




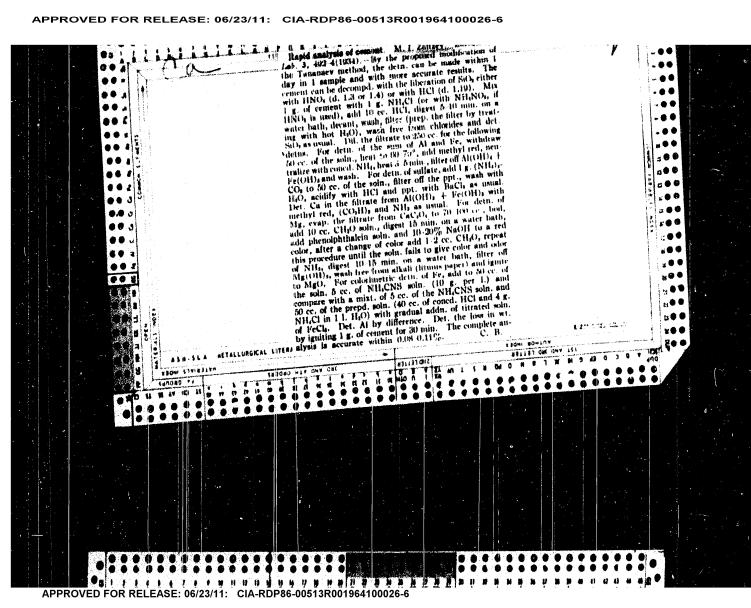




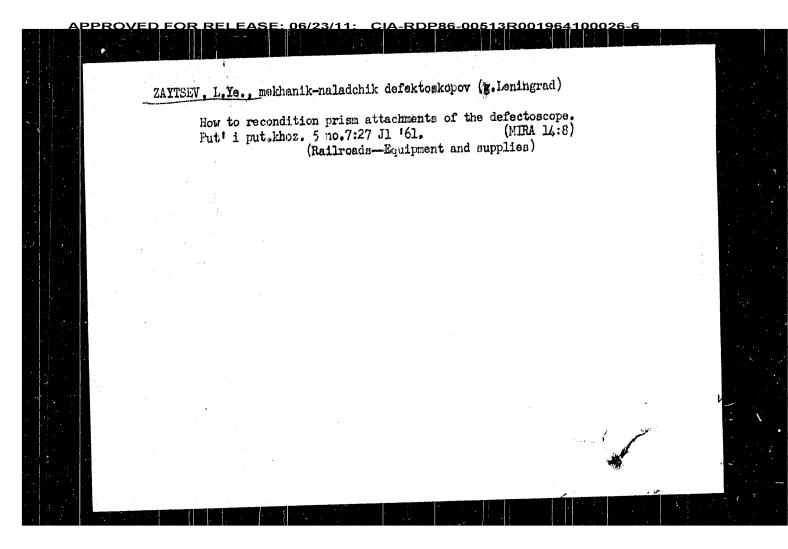




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Some data from the Karabrah copper plant for 1927-30. M. Zantery. Lordner thanks and pre-short plants are pre-short in connection with the reverbershow and of section of the Karabrah plant. Some data from the Karabrah copper plant for 1927-30. M. Zantery. Lordner thanks and pre-short pre-short plants are pre-short pre-short



KANTSEL', Ya.O., inzh.; BELYANCHIKOV, V.N., inzh.; NOVIKOV, I.V., inzh.; ZAYTSEV, L.Ye., inzh.; AKIL'YEV, S.A., inzh.;

BELKIN, V.A., inzh.; POCHKINA, L.A., inzh.; VASIL'YEV, O.A., inzh.; KUZ'MINYKH, A.A., red.izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Service life of parts of excavating, construction and road machinery; a reference catalog] Sroki sluzhby detalei ekskavatorov, stroitel'nykh i dorozhnykh mashin; katalog-spravochnik. Izd.2., perer. i dop. Moskva, Goslesbumizdat. Pt.1.[Excavating machinery and hoisting equipment; cranes, loaders, winches, and elevators] Ekskavatory i pod"emno-transportnoe oborudovanie; krany, pogruzchiki, lebedki, elevatory. 1963.

342 p. (MIRA 17:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po snabzheniyu i sbytu produktsii tyazhelogo, transportnogo i

stroitel'no-dorozhnogo mashinostroyeniya. Tekhnicheskaya kontora "Stroityazhmashzapchast'." Konstruktorskoye byuro.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

ZAYTSEV, L.Ye., mekhanik-naladchik (g.Leningrad) Transistorized flaw detector. Put' i put.khoz. 4 no.10:33 (MIRA 13:9) 0 '60. (Railroads--Rails--Testing) (Transistor)

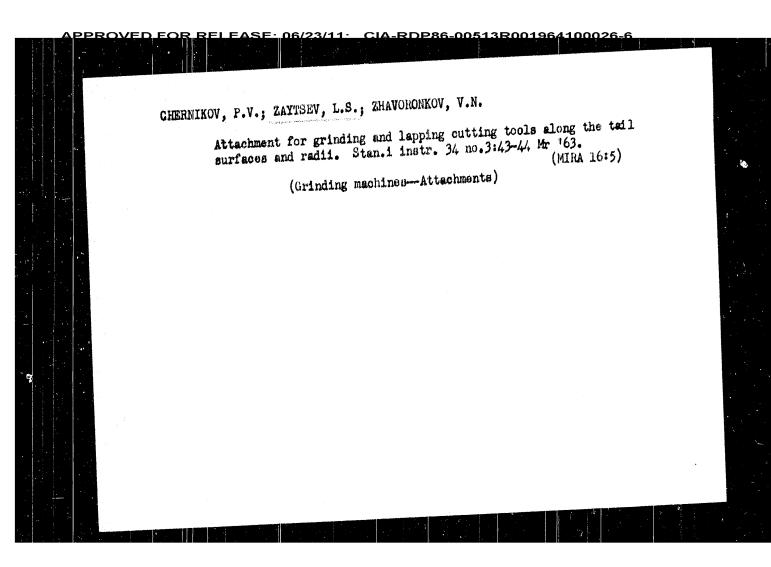
BEIYANCHIKOV, V.N., inzh.; NOVIKOV, I.V., inzh.; ZAYTSEV. L.Ye., inzh.; AKIL'YEV, S.A., inzh.; BELKIN, V A., inzh.; Printazli POCHKINA, L.A., inzh.; VASIL'YEV, O.A., inzh.; Printazli uchastiye: KOPEYKINA, O.P.; SMIRNOVA, A.N.; BELKINA, S.S.; SHILINA, Ye.I.; LAGUNOV, Ye.N.; REZNIK, S.Z.; BRISMAN, B.I.; KUZHINTKH, A. M. SHILINA, R. J. SHIROVA, R. J. S

[Operational life of parts of excavating, construction, and road machinery; a reference catalog] Sroki sluzhby detalei ekskavatorov, stroitel'nykh i dorozhnykh mashir, katalog spravochnik. Izd.2., perer. i dop. Moskva, Goskatalog spravochnik. Izd.2., perer. i dop. Moskva, Goskatalog spravochnik. [Road, construction machinery, and machinery for manufacturing building materials] Dorozhnye, stroitel'nye mashiny i mashiny dlia proizvodstva stroitel'nykh materialov. 1963. 306 p. (MIRA 17:4)

l. "Stroitiyazhmashzapchast"," Tekhnicheskaya kontora. Konstruktorskoye byuro. RYAKHIN, V.A., kand.tekhn.nauk; ZAYTSEV, L.V., inzh.; SHIFRIN, T.A., inzh. Effectiveness of the specialized manufacture of standardized ceries of excavators and cranes. Stroi. 1 dor. mash. 10 no.7:1-3 Ji 185. (MIRA 18:8) ANUCHKIN, N.N., insh.; CARBUZOV, Z.Ye., insh.; ZAYTSEV, L.V., insh.; KULIKOV, A.P., insh.; MIKHAYLOV, P.M., insn.

E-155 and E-156 building excavators with caterpillar drive or with pneumatio tires. Stroi. i dor. machinestr. 5 no.5:5-9 My '60.

(Excavating machinery)



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ZAYTSEV, L. S.; SITDYKOV, S. SH.; ZHURLOV, N. L.

Geography and Geology

Requirements of industry as to the quality of mineral raw materials. Handbook for geologists--Moskva, Gos. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SNK SSSR, No. 44, Arsenic, 1947.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.

KURMAN, I.M.; MEL'NITSKIY, V.V.; ZAYTSEY, L.S.; MEL'NITSKAYA, Ye.F.; ORLOVA, Ye.V.; Prinimali uchastiyei OKNINA, V.A.; KOKYAKOY, G.Ya.; DARACAN, V.R., red.; SHUQIN, A.A., red.; AFANAS'YEVA, Yu.N., red. izd-va; IYERUSALINSKAYA, Ye.S., tekim. red.

[Prospecting for boron] Poiski i razvedka bornogo syr'ia. Fod obshchei red. V.Kh.Daragama, I.M.Kurmana i A.A.Shugina. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane medr., 1960. 102 p. (MIRA 14:7).

1. Moscow. Vsesoyuanyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya Gosudarstvennogo komiteta Soveta Ministrov SSSR (for Mel'nitskaya, Okina, Koryakov). 3. Vsesoyuanyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr (for Orlova).

(Boron)

1.5285-66 Ent(d)/Ent(ii)/Enp(v)/Enp(t)/Enp(k)/Enp(b)/Enp(b)/Enp(1)/Ena(b) SOURCE CODE: UR/0286/65/000/014/0105/0105 ACC NR: AP5022038 AUTHORS: Chernikov, P. V. ORG: none TITIE: A method for working with a hard alloy tool bit. Class 49, No. 173092 SOURCE: Eyulleten' izobreteniy 1 tovarnykh znakov, no. 14, 1965, 105 TOPIC TAGE: mechanical metal removal, metalworking, metal cutting, outling tool, metal cutting machine sool ABSTRACT: This Author Certificate presents a method for cutting with a hard alloy tool bit. To increase the wear resistance of the tool bit, the work is conducted with a cyclically altered longitudinal feed changing from detail to detail or during working of the same detail. Thus, the first detail may be worked at a feed 15-25% below the optimal, the second detail at the optimal feed, and the third at a feed 15-25% above optimal. After this, the cycle is repeated in the same or in some other order. 000 OTH REF: ORIG REF: 000/ SUBN DATE: 03May63/ SUB CODE: IE/ 09010490

S/081/61/000/010/008/029 B117/B207

AUTHORS:

Balezin, S. A., Beskov, S. D., Zaytsev, L. P.

TITLE:

Chemical surface purification of metal products by the jet

method

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1961, 285, abstract

101194 (101194) ("/Uch. zap./ Mosk. gos. ped. in-ta im. V. I. Lenina", no. 146, 1960, 41-61)

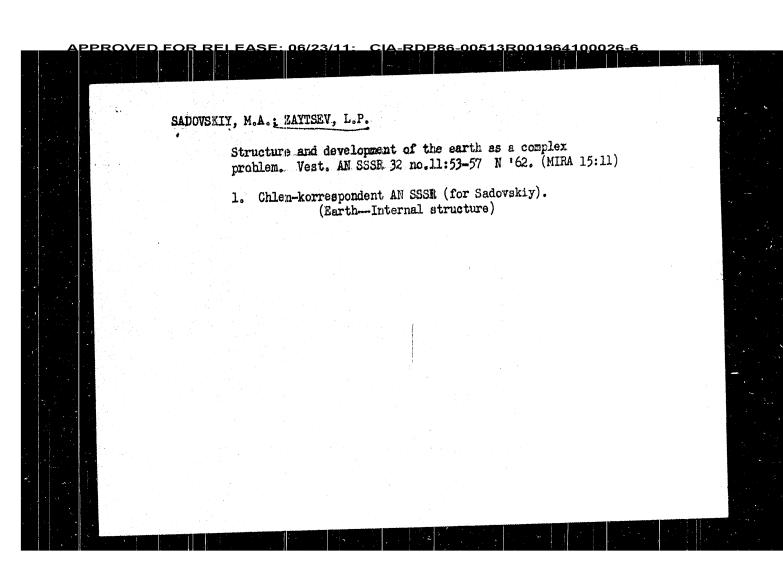
TEXT: It is pointed out that the jet method for purifying metal surfaces, which combines the chemical and mechanical effects of the caustic solution, reduces the time necessary to purify metal products to between one-tenth and one-fifteenth. Combined jet and caustic processes are recommended for brass and steel products. Abstracter's note: Complete translation.

Card 1/1

ZAYTSEV, L.P. Resistance of the ground to cutting by the rotary working part of a canal excavator. Vop. gidr. no.3:133-146 '61. (MIHA 15:4) (Excavating machinery) ZAYTSEV, L. P.

ZAYTSEV, L. P. --WThe Effect of the Closeness of Coiling of Carrier Cables on Its Stability in Transverse Loads." Sub 30 Jun 52, Central Sci Fes Inst of Technology and Machine Building (TextIITWash) (Dissertation for the Degree of Candidate in the Technical Science)

SO: VECHERNAYA MOSKVA, JANNAFY-DECEMBER 1952



PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

ACCESSION NR: AP4025909

of reports were devoted to summarizing data on the geographical exploration of the Caucasus and of the Black Sea basin by seismic, gravimetric, and by other means. A five-year plan of geological-geophysical-geochémical exploration has been drafted. A five-year plan of geological-geophysical-geochémical exploration has been drafted. It consists of 15 topics, names of the potential investigators, and completion dates. One of the main assignments is the drafting of geological, tectonic, structural, paleontological, paleotectonic, and paleostructural summaries, maps, and profiles. All maps are to be drawn to the same scale. Information use is to be obtained from studies of refracted waves, magneto-telluric soundings, and other geophysical methods. The importance of recording seismic phenomena was stressed. It was recommended that laboratories for the study of physical and geothermal properties of rocks be established. Drilling of deep holes was also suggested. The Ukrainian Academy of Sciences was asked to prepare a similar program for the Crimes. A tentative date for discussion of preliminary results from the Caucasus region was set for the end of 1965.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: OSAprol

FNCL: 00

SUB CODE: AS

NO REF SOV: 000

OTHER: COO

Card 2/2

ACCESSION NR: AP4025909

5/0030/64/000/002/0118/0119

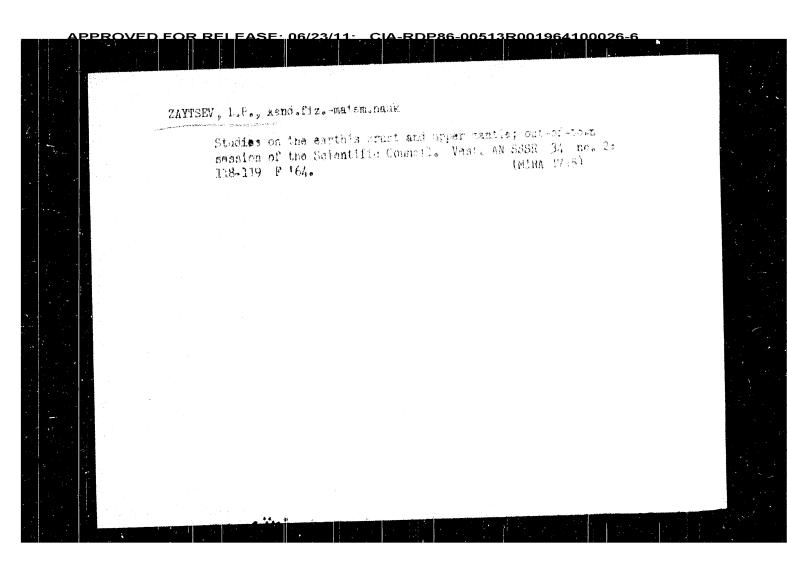
AUTHOR: Zaytsev, L. P. (Candidate of physico-mathematical sciences)

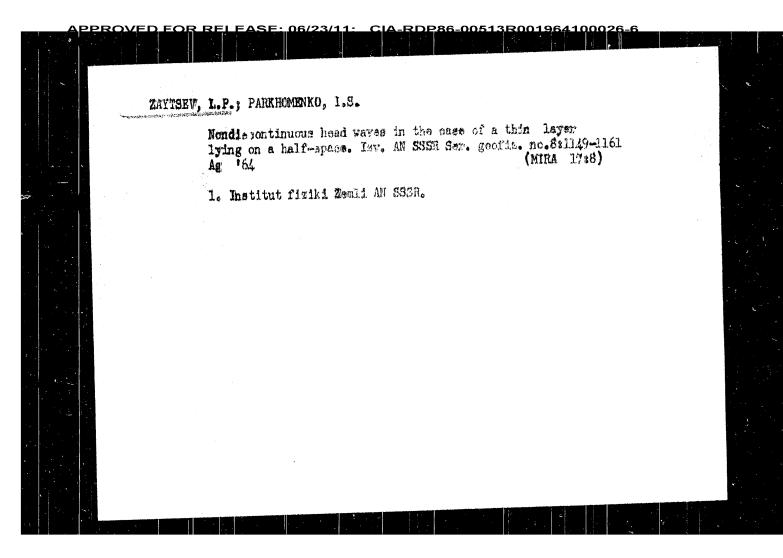
TITLE: Investigation of the crust and outer mantle of the earth (Mobile Session of the Science Council)

SOURCE: AN SSSR. Vestnik, no. 2, 1964, 118-119

TOPIC TAGS: earth crust, mantle, Caucasus, Crimea, geophysics, tectonics, mapping

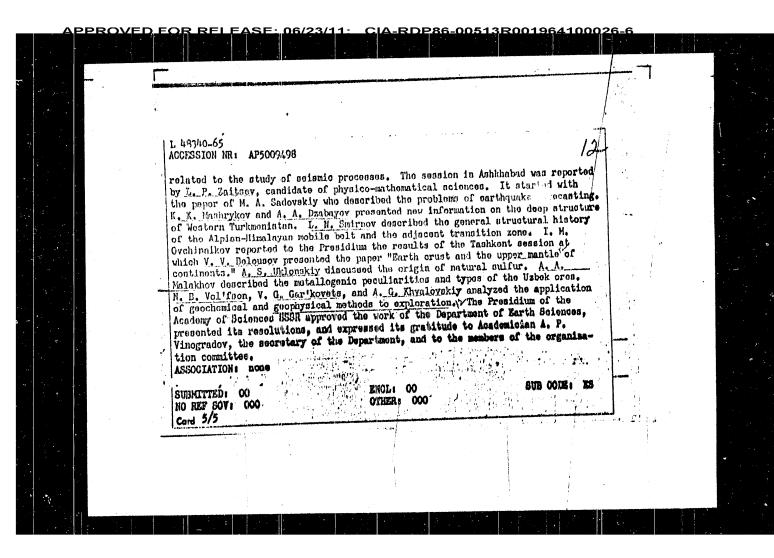
ABSTRACT: During October 31-November 3, 1963 there took place in Tbilisi a session of the Science Council for evaluating the present status of information on the geological structure and evolution of the Caucasus and the adjacent seas. The Council also worked out a program of explorations in this area and organized a regional science council. Over 150 representatives of scientific research institutions, colleges, and industrial organizations participated. At the plenary sessions papers were discussed dealing with a detailed analysis of the current data on the tectonics of the Caucasus, on the evolution of the structural elements of the earth's grust, on the distribution of formations in time and space, and on the physical properties of rocks. Separate aspects of the geological structure in the Caucasus and adjacent territories were dealt with in detail. A large number





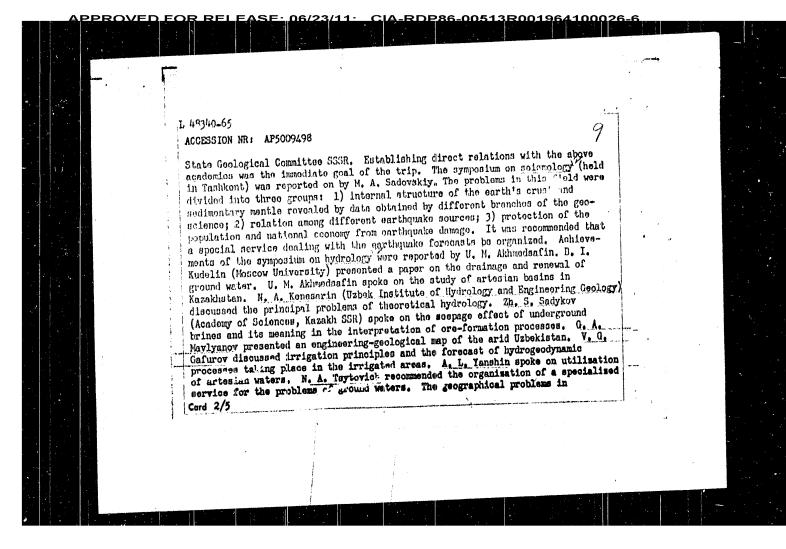
VINOGRADOV, A.P., akademik; SADOVSKIY, M.A.; AKHMEDSAFIN, U.M., akademik; OERASIMOV, I.P., akademik; YANSHIN, A.L., akademik; SHCHERBAKOV, D.I., akademik; PEYVE, A.V., akademik; ZAYTSEV, L.P., kand.fiz.matem.nauk; OVCHINNIKOV, I.M. Development of earth sciences in Central Asia and Kazakhstan; results of the out-of-town session of the Department of Earth Sciences. Vest.AN SSSR 35 no.3:128-150 Mr 165. (MIRA 18:4) 1. Chlen-korrespondent AN SSSR (for Sadovskiy). 2. AN Kazakhskoy SSR (for Akhmedsafin).

ZAYTSEV, L.P. General session of the Department of Earth Saternar. 177.
AN OSSR. Ser. geol. 29 no.9:118-119 S 164. (Maha 17:11) ZAYTSEV, L.P. Selecting the shape of the blades of the working elements of continuous-action canal cleaners. Vop. gidrotekh. no.15:45-56
*63. (MIRA 18:2) 163.



action sends, and deltaic deposits of this region, H. I. Varentsev described coll prospects in southeastern Kazakhatan, This topic was discussed in greater detail in the paper by P. 18. Arroy, was described by A. T. Andreyev, H. D. Morozov, Goophysical research in Kazakhatan, This topic was discussed in greater detail in the paper by P. 18. Arroy, was described by A. T. Andreyev, H. D. Morozov, W. V. Prodava, and V. I. Ool debnit. The session on the problem of ore generic was held in Frunce, and its results were reported by Association D. I. Schorbskov, van held in Frunce, and its results were reported by Association D. I. Schorbskov, V. N. Shakhav and A. I. Tugarlev discussed the application of my receive methods in goology. V. T. Surgar proported on him study of regional geochemistry in the accumulation and localization of sureury ore. M. M. Altiquarent map of ore deposits. V. I. Knauf and Fs. I. Zubtsev presented a structural map of northern Kinglitziya. A. D. Romey opton on the origin of ores in sedimentary and extrusive rocks of Tymi-Sham. A. U. Abdullayev formulated principal conditions for bauxits forwards. G. L. Exprésy discussed the polysatallic region of Moldofton tau. A Dahmadlyev spoke on the structure of each Dahmagla, Academician A. V. Perry reported the results of the Barocasses. Yu. V. Rinchenko spoke un seismic activity and the snargy of cartiquakes. B. B. Extrator and S. A. Takharev Alberts and the snargy of activations accompanies processes and Toluting Zakharev spoke on seismic phenomena. V. M. Gaisky discussed problems Card 4/5

L 48340-65 ACCESSION NR: AP5009498 Central Asia were discussed at three interrelated geographic symposia held in Tashkent, Ashkhabad, and at Alma-Ata. The first dealt with the geographical aspects of irrigation in Central Asia; the second with the problems of desert conquest and the building of the Kara Kum canal; the third with the regulation of glacier melting in the mountains of Contral Asia. Of special interest was the discussion of the future fate of the Aral Son. Two opposite opinions were presented: V. L. Shullts stated that increased use of river waters for irrigation will cause a complete drying up of the sea. L. V. Dunin-Barkovskiy drew attention to the recent rise of the water level in the sea, explaining it by the peculiarities of water transpiration by different types of vegetation. F. F. Davitay however, explained the paradox by the water supply at the river sources at the Pamir-Altai and Tyan'-Shan' divide. The results of the three sessions were summarized by Academician I. P. Gerasimov. Academician A. L. Yanshin reported on the main session of the Earth Sciences Department in Alma-Ata. R. A. Borukayev, A. K. Kayupov, G. F. Lynpichev, and L. A. Mirodhnichenko reported on the structural and metallogonic mapping of eastern Kanakhstan. G. B. Zhilinskiy discussed problems in theoretical and experimental mineralogy. A. K. Kayupov spoke on the relation of endogene metallogeny to the deep structure of the crust. I. P. Novokhatakiy reported on iron and manganese deposits in Kasakhatan. Zh. S. Sadykov made a quantitative evaluation of artesian waters in the artesian basins,



APPROVED FOR REI FASE. 06/23/11. Clark provided the results of a field trip of the Department of Earth Sciences, geochronology, geography, geological survey, geochronological problem, geochronology, geography, geological survey, geochronological problem, geochronology, geography, geological survey, geochronological problem, geochronology, geography. The Presidium of the Academy of Siences, SSSR heard the report of academician A. P. Yinogradey, secretary of the Department of Earth Sciences, at the sousion A. P. Yinogradey, secretary of the Department of Earth Sciences, at the sousion had on January 15. The speaker presented the results of the department of Larth Sciences, at the sousion had on January 15. The speaker presented the results of the department of the Academies of Sciences of Kazakhstan, Kirghisiya, Tedshikistan, Turkmenistan, and Usbekistan, and the Card 1/5

ZAYTSEV, L.P. General Conference of the Department of Earth Sciences of the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Ser. geol. 29 no.ll:119-120 N '64. ZAYTSEV, L.P., FILITMAN, L.M. Elastic wawes induced by a tangential discontinuity crack on the interface of two elastic media. Izv. AN SSSR. Fiz. zem. no.lls 13-19 165. (MIRA 18:12) 1. Institut fiziki Zemli AN SSSR. Submitted May 11, 1965.

ACCESSION NR: AP4043907

ASSOCIATION: Institut fiziki Zemli, Akademiya nauk SSSR (Institute of Geophysics, SSSR Academy of Sciences)

SUBMITTED: 24Jul63

ENCL: 00

SUB CODE: ES

NO REF SOV: 011

OTHER: 000

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ACCESSION NR: AP4043907

propagating with the velocity of S-waves in a half-space has been recorded experimentally on two-dimensional models. Certain dynamic peculiarities of the degenerate head waves are analyzed: they are essentially low-frequency in comparison with a direct P-wave and their amplitude is comparable to the amplitudes of a direct P-wave and a Rayleigh wave. Comparison of theoretical computations and experimental data shows good agreement between velocity of propagation and the predominant period for a degenerate head wave propagating with the velocity of Swaves. In the models it was possible to record a "slow" interfering degenerate head wave, that is, a wave propagating in the layer with the velocity of transverse waves in the underlying half-space. This wave was detected clearly when there was a certain optimal relation between the thickness of the layer and wavelength (h/ λ = 0.2). In this case the thickness of the layer in comparison with wavelength was such that there was an interference effect and the amplitude of the "slow" degenerate head wave increased sharply in a certain frequency range. In the case of other values of h/λ (0.3 and 0.4) no "slow" wave was recorded on the selsmograms. This apparently can be attributed to the fact that the interference effect is manifested only in a narrow range of h/Avalues. The theoretical and observed travel-time curves of the "slow" wave virtually coincide. The theoretical value of 7,28 kc/s agrees well with the experimental estimate of the dominant frequency of this wave, which is 6.9 + 0.3 kc/s. No "rapid" interfering degenerate head wave was observed in the models. Orig. art. has: 22 formulas and 7 figures.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

ACCESSION NR: AP4043907

\$/0049/64/000/008/1149/1161

AUTHOR: Zaytsev, L. P., Parkhomenko, 1. S.

TITLE: Degenerate head waves in the case of a thin layer lying on a half-space

SOURCE: AN SSSR. Izvestiya. Seriya geofizicheskaya, no. 8, 1964, 1149-1161

TOPIC TAGS: seismology, seismic head wave, seismic wave, seismic wave propagation, seismic modeling, geophysics

ABSTRACT: This paper is a continuation of a study of degenerate head waves which was undertaken earlier by one of the authors (L. P. Zaytsev, Izv. AN SSSR, Ser. geofiz., No. 8, 1960; O golovnoy volne poverkhnostnogo tipa, Voprosy* dinamicheskoy retical studies discussed the axially symmetrical problem of forced oscillations in a medium consisting of two liquid and two elastic half-spaces with a plane discontinuity. A new form of oscillations called a degenerate head wave was defined. This new paper is a theoretical and experimental study of degenerate head waves on a half-space. It was found that in a thin layer of a high velocity lying on waves which are propagated with the velocities of longitudinal P- and transverse Cord 1/3

The structure and evolution ... \$\frac{5}{030}\frac{62}{000}\frac{001}{001}\frac{005}{005}\$

sational problems. It is hoped that more attention will be given in future to purely scientific matters.

Card 3/5

The structure and evolution ...

S/030/62/000/011/001/005 D218/D308

sures and geothermy, geochronological methods, experimental studies of internal processes, geomagnetism, composite studies of contemporary movements, composite studies of volcanology, deep seismic sounding and magneto-telluric methods of atudying the earth's interior. The first session of the Council took place on February 19/20 and was concerned with the coordination of plans of the large number of institutes for which the Council is responsible. The second session took place towards the end of May and its main purpose was to discus's scientific projects for the next few years, including 1963. In some cases it was decided to hold special coordinating conferences (paleontology, neotectonics, geomorphology and exogenetic processes, the problem of the tsunamis, physicochemical mineralogy and petrology at large depths in the earth's crust). Among the most important meetings which took place in 1962 were the plenary session of the Council on the problem of the forecasting of earthquakes, a seminar on the physical properties of rocks under high pressures, a symposium on the petrochemistry of volcanic rocks and a conference on paleomagnetism. It is noted that the first period of activity of the Council was largely concerned with organi-

\$/030/62/000/011/001/005 D218/1308

AUTHOR:

Sadovskiy, M.A., Corresponding Member of the USSR, and Zaytsev, L.P.

TITLE:

The structure and evolution of the earth as

a composite problem

PERIODICAL:

Akademiya nauk SSSR. Vestnik. no. 11, 1962, 53 - 57

This paper reports the formation of a Scientific Council concerned with the structure and evolution of the earth. It was decided that the coordination of studies of the atmosphere and of the sea will be outside the terms of reference of this Council. On the other hand the Council will include two earlier organizations, namely, the Council for the methods of geophysical prospecting and the Council for seismology. Other sections which come under this new Council are concerned with the earth's crust and mantle and the internal structure of the earth. Eight methodological commissions will deal with geochemistry, high pres-

ZAYTSEV, L.P. Geophysical prospecting. Mauka i zhizn' 27 no.5:77-78 My '60. (MIRA 13:6) 1. Uchenyy sekretar: Soveta po metodam razvedochnoy geofiziki AN SSSR. (Prospecting--Geophysical methods)

86207

\$/049/60/000/008/002/015

Degenerate "Principal Waves" (golovnyye volny) in an Elastic Medium with a Discontinuity

vibration source is higher than any one of the wave velocities in the other semi-space. Strong attenuation should occur when the source or the observer moves away from the boundary between the two spaces. This attenuation should be less pronounced at low frequencies. The form of seismograms should be independent of the distance from the epicentre and this may help in identifying the degenerate principal waves in seismic observations. One can expect that observations of such waves will be useful in glaciological seismic studies where frequently there is no other way of investigating the rocks under the ice layer. The degenerate principal waves in liquids were dealt with by the present author in an earlier paper (Ref.1); their existence was first pointed out by Cerveny (Ref. 2). The present paper is entirely theoretical and Figs 1-5 illustrate some points in the theoretical discussion.

Acknowledgement is made to V.I. Keylis-Borok for his advice. There are 5 figures and 3 references: 2 Soviet and 1 Gzech. ASSOCIATION: Akademiya nauk SSSR, Institut fiziki zemli

(Physics of the Earth Institute, AS USSR) SUBMITTED: August 11, 1959

Gard 2/2

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6</u>

3.9300 9.9865 86207

8/049/60/000/008/002/015 E201/E191

AUTHOR #

Zaytsev, L.P.

TITLE:

Degenerate "Principal Waves" (golovnyye volny) in an

Elastic Medium with a Discontinuity

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,

1960, No. 8, pp. 1117-1123

The author considers an axisymmetric problem of forced TEXT: vibrations in two semi-infinite elastic spaces with a plane boundary separating them. The two spaces are taken to have different densities and are characterized by different velocities of longitudinal and transverse waves. It is assumed that the space where these velocities are higher contains a point pulse source of longitudinal vibrations. The author studies the displacement field in the semi-space containing the source of vibrations, in regions far from the wave fronts. From a general solution the author extracts several displacement fields, which he calls "degenerate principal waves" (Eq. 7). These waves have a number of characteristic features and they should occur fairly frequently in Seismic observations. The degenerate principal waves appear when one of the wave velocities in the semi-space with the Card 1/2

On the head wave of surface type

22586 \$/044/60/000/010/009/021 C111/C333

introduced as a surface on which the horizontal component of the displacements has an extremum value. The values of the displacements on this surface decrease exponentially under removal from the boundary of separation; this gives occasion to denote the obtained wave as a wave of surface type.

[Abstracter's notes Complete translation.]

Card 2/2

3.9300 (1019,1109)

22586 **3/044/60/00**0/010/009/021 C111/C333

Zaytsev, L.P.

AUTHOR:

TITLES

On the head wave of surface type

PERIODICALS

Referativnyy zhurnal, Matematika, no. 10, 1960, 96, abstract 11684. (sb.: Vopr.dinamich.teorii rasprostr. seysmich. voln. Z.L., Leningr.un-t, 1959, 378-383)

The author considers a medium consisting of two half spaces and characterized by a wave equation. In the half space with high speed of propagation of elastic waves there is a source of the type of an expansion center. The solution of the boundary value problem is sought in the form of Fourier-Bessel integrals, the integrand of which is represented by a Mellin integral. The method of the stationary phase is used for the approximative calculation of the Mellin integrals. For the deformation of the initial contour into the stationary one there must be carried out additional circulations along sections in the complex plane. The integration in the neighborhood of the saddle points gives the potential of the reflected wave in certain approximation, the integration along sections gives a wave which is characterized by the absence of discontinuities even in high derivatives. However, the notion of the quasi wave front can be Card 1/2

ZAYTSEV, L.P. Meeting of the Council on Mehtods of Geophysical Prospecting devoted to problems of using nuclear methods. Izv.AN SSSR Ser.geofiz. no.10:1232-1233 0 *56. (MLRA 10:1) (Nuclear geophysics) (Prospecting)

ZAYTSEV, L. P.

USSR/Geophysics - Conference

Card 1/1 : Pub 44-10/11

Author : Kirillov, F.

Title : Chronicles. Conference of young scientists of the Geophysics Institute,

Academy of Scientists of the USSR

Periodical ; Izv. AN SSSR, Ser. geofiz., 495-496, Sep-Oct 1954

: May 17-20, 1954, the Geophysics Institute held a conference at which Abstract

junior scientific workers participated with 18 reports; e.g. Ye. A. Lyubimova (heating of the Earth), S. L. Solov'yev (intensity of earthquakes in Turkmenia 1912-1951), S. A. Fedotov (wave hodographs), Yu. I. Vasil'yev (use of amplitude data in seismic prospecting), O. G. Shamina (elastic impulses during collapse of rocks in earthquakes), O. I. Silayeva (velocity of propagation of elastic waves in granite, marble, etc.), V. I. Tatarskiy (Propagation of waves in medium with random weak inhomogeneity of refraction coefficient), L. P. Zaytsev (reflection of waves from boundary), A. S. Chaplygina (measuring the thermobaric field in the atmosphere by statistical treatment of empiric

data).

Institution

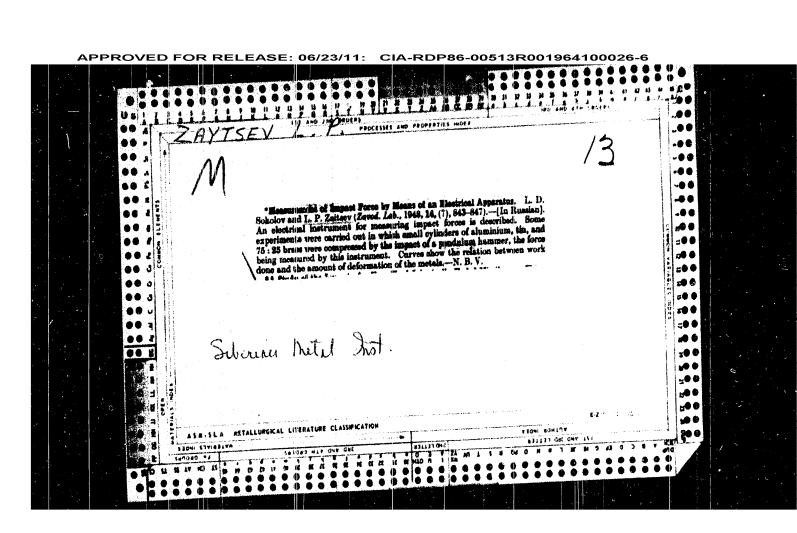
Submitted

ORLOV, D.M.; ZAYTSEV, L.P. [deceased]; LYULENKOV, I.S.; LYULENKOV, V.I.

Kfficient selection of counterweights for tower-type car dumpers.

Izv.vys.ucheb.zav.; chern.met. no.4:177-183 '51. (KIRA 14:4)

1. Sibirskiy metallurgicheskiy institut.
 (Metallurgical plants-Equipment and supplies)
 (Dumping appliances)



L 09873-67

ACC NR: AP6032250

concretes with a very small amount of water or those entirely without combined water, such as heat-resistant concretes. [Authors' abstract]

SUB CODE: 06, 11/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 003/

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

I, 09973-67 SIT(1)/SIT(0)/EIT(m)/SIT(t)/FIT JJP(c) JD/RO ACC NR AP6032250 /// SOURCE CODE: UR/0097/66/000/007/0032/0034

AUTHOR: Zavisev, L. N. (Candidate of technical sciences); Lavdanskiy, P. A.; Mal'kov, V. V.; Sychev, B. S.

ORG: none

TITLE: Role of boron-containing concretes as nuclear reactor shields

SOURCE: Beton i zhelezobeton, no. 7, 1966, 32-34

TOPIC TAGS: boron, concrete, nuclear shielding, biological shielding

ABSTRACT: The addition of boron to biological shielding made from ordinary concrete reduces its thickness by 27% when the content of chemically combined water is low, and by 23% when the amount of water in the concrete is 75 kg/m³ (with a dosage ratio of $D_1^\circ/D_2^\circ=10^{-3}$). Maximum reduction in shielding thickness due to the addition of boron to heavy concrete for ore-filled concrete with a volumetric weight of 3200 kg/m³ is 3% (when the ratio between the dosages is $D_1^\circ/D_2^\circ=10^{-1}$). Thus, the addition of boron is not economically advantageous, since it results in only a small savings in concrete. Exceptions are reinforced

Card 1/2

UDC: 666, 974

ACC NR AP6013725

of iron without the addition of hydrogen is not expedient. The authors are deeply indebted to V. S. Kiselev for his help in the calculation of the buildup factors of intermediate neutrons, and to V. P. Afanas'yev and V. M. Nazarov for making available the calibrated high-energy and intermediate-energy neutron detectors. Orig. art. has: 7 formulas, 2 figures, and 3 tables.

SUB CODE: 18/ SUBM DATE: 29Jun65/ ORIG REF: 004/ OTH REF: 001

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

L 41035-66 EWT(m)/T

ACC NR: AP6013725

A) SOURCE CODE: UR/0089/66/020/004/0323/0327

AUTHOR: Sychev, B. S.; Mal'kov, V. V.; Komochkov, M. M.; Zaytsev, L. N.

ORG: none

TITLE: The passage of high energy neutrons through iron-water mixtures

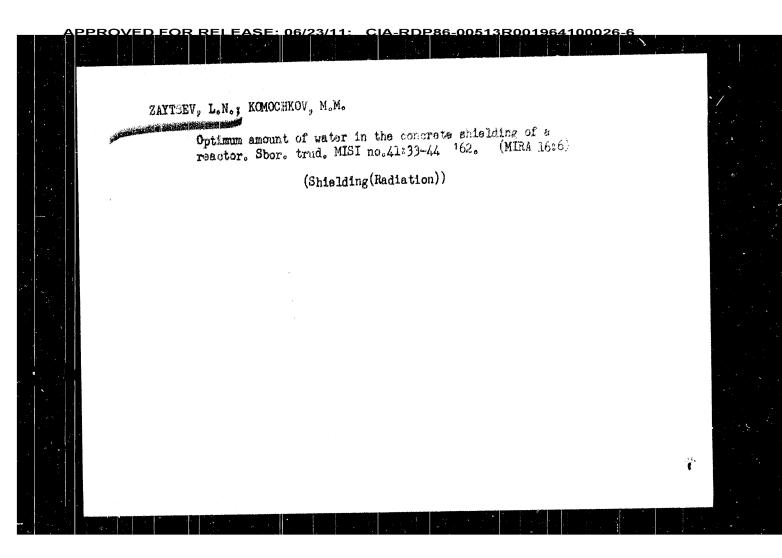
SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 323-327

TOPIC TAGS: neutron shielding, neutron diffusion, neutron detector, neutron flux

ABSTRACT: The accumulation of slow neutrons (E < 1 MeV) during the passage of high energy neutrons through iron and iron-water mixtures was determined experimentally and theoretically. A set of 20 mm thick 980 x 980 mm steel plates was placed into a 1000 x 1000 x 2000 mm metal container located in the synchrocyclotron chamber of the OIYaI. Concrete blocks shielded the device from scattered radiation. Neutrons were generated by 170, 250, 350, 480, and 660 MeV protons. The paper presents the characteristics of the three detectors used, the attenuation of the neutron flux generated by high energy protons, the relaxation length of high energy neutrons (for various energies of primary protons and differing concentrations of water), the buildup factors of intermediate neutrons, and the thickness of iron-water shielding of varying hydrogen content for a 200-fold attenuation. An analysis of the results shows that the use

Card1/2

UDC: 621.039.512.45



ZAYTSEV, L.N.; KOMOCHKOV, M.M.; SYCHEV, B.S. Attenuation of high-energy neutorms in concrete. Atom. energ. 12 no. 6:525-527 Je *62. (MIRA 15:6) (Neutrons-Spectra) (Concrete-Testing) ZAYTSEV, L.N., inzh. Methods of manufacturing concrete blocks for protective walls in buildings nuclear reactors and accelerators. Bet. i zhel.-bet. 8 no.5:227-230 My '62. (MIRA 15: (Concrete blocks) (Shielding (Radiation)) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

Attenuation of high-energy ...

3/089/62/012/006/012/019 B102/B104

50 % be inversely proportional to the concrete density (Callan, Amer. Inst. 25, 17, 1953). Economic considerations show that a reduction of the required thickness cannot compensate for the rise in cost resulting from the use of heavy concretes. The concretes in question cost 28.9, 75.0, and 209.6 rubles/m³. There are 3 figures and 3 tables.

SUBMITTED: February 10,11962

Card 2/2

8/089/62/012/006/012/019 B102/B104 Zaytsav, L. H., Komochkov, M. M., Sychev, B. S. Attenuation of high-energy neutrons in concrete 21.5250 Atomnaya energiya, v. 12, no. 6, 1962, 525 - 527 AUTHORS . TEXT: The intensity losses of fast neutrons passing through special heavy Concretes were studied on the synchrocyclotron of the Laboratoriya yadernykh TITLE: concretes were studied on the synchrocyclotron of the paperatoriya yademy problem Ob"yedinennogo instituta yadernykh issledovaniy (Laboratory for problem Ob"yedinennogo instituta yadernykh issledovaniy (Problems of the Joint Tratitute of Nuclear Research) provided the Joint Tratitute of Nuclear Research) problem Up yearnennogo institute yeaernykn issledovaniy (Laboratory ior Nuclear Problems of the Joint Institute of Nuclear Research). Previously, such attidios had been made only for ordinary consists. PERIODICAL: Buch studies had been made only for ordinary concretes. Three types of concrete (densities 2.35 3.2 and 4.4 g/cm3) workstudied the first such studies had been made only for ordinary concretes. Three types of concrete (densities, 2.35, 3.2, and 4.1 g/cm³) were studied, the first concrete (densities, 2.35, 3.2, the synchrocyclotron. The neutron flux being the same as that used in the synchrocyclotron. The neutron flux was determined from the C11 activity in the concrete. The C12(n, 2n)C11 reaction has a threshold of 20 May and a constant areas activity in the characteristics has a determined from the U activity in the concrete. The U (n, 2n)U reaction has a threshold of 20 MeV and a constant cross section in the energy At $E_n > 20$ MeV, the drop of intensity in concrete 20-40om thick was found to follow an exponential law. The authors' experiments cm thick was lound to lollow an exponential law. The authors' experiments which reduces the intensity to refuted the assumption that the thickness range considered. Card 1/2

ACCESSION NR: AP4012262

afforded by various types of concrete. The reactor considered has a graphite moderator, a reflector, and a concrete external shield. For computation, the known absorption cross sections for fast and intermediate neutrons for the elements present in the concrete were used. It follows from the computations that the cost is minimal for a shield of an ordinary concrete with 2300 kpm/m³. For the heavy concrete (4000 kgm/m³) the cost is minimal when the water content is the smallest, and for a concrete with a higher density the minimum cost is when the water content is at its maximum. "The authors are grateful to A.M. Komarovskiy for interest and practical advice." Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: None

SUBMITTED: 08Aug63

DATE ACQ: 14Feb64

ENOL: 00

SUB CODE: NS.BC

NR REF 80V: 005

OTHER: 006

Cord 2/2

ACCESSION NR: AP4012262

s/0089/64/016/001/0026/0032

AUTHORS: Broder, D.L.; Zaytsev, L.N.; Sytohev, B.S.; Tugolukov, A.M.

TITLE: Effect of water content in concrete on the thickness of the reactor shield and its cost.

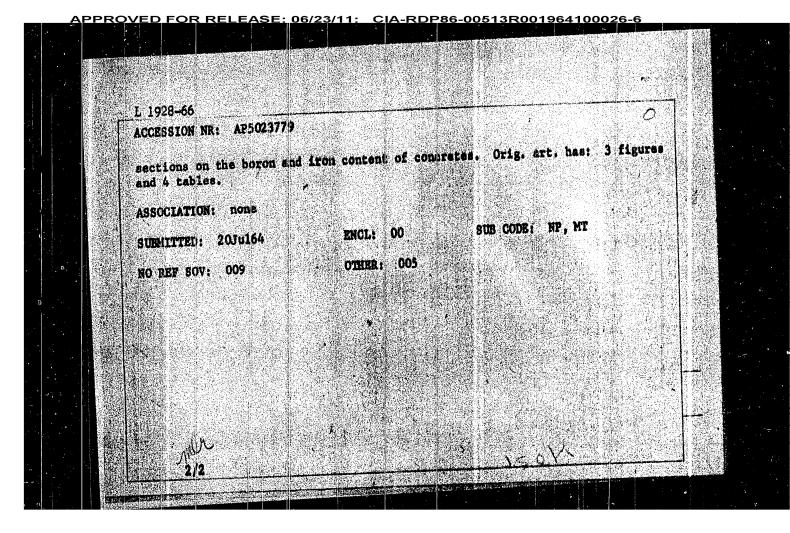
SOURCE: Atomnaya energiya, v.16, no.1, 1964, 26-32

TOPIC TAGS: reactor shield, biological reactor protection, reactor shield cost, reactor shield water concentration, optimal reactor protection

ABSTRACT: The purpose of the present work is to determine the economical aspect of the increasing amount of water in concrete for reactor shieldings. Increasing the water content in concrete increases its hydrogen concentration which effectively reduces the leakage of fast and intermediate neutrons because of the large cross section of hydrogen for fast and intermediate neutrons. Various types of concrete used for reactor shieldings have hydrogen concentration within the 12% range. The authors have computed the biological protection

Card 1/2

BRODER, D.L.; ZAYTSEV, L.N.; SYCHEV, B.S.; TUGOLUKOV, A.M. Effect of the water content of concretes on the thickness and cost of reactor shielding. Atom. energ. 16 no.1:26-32 Ja '64. (MIRA 17:2)



EWT(m)/EPF(n)-2/EWG(m)/SWA(h)/EWA(1) DM L 1928-65

ACCESSION NR: APS023779

UR/0089/65/019/003/0303/0307 621,039.538.7

Zaytsev, L. N.; Lavdanskiy, P. A.; Mal'kov, V. V.; Sychev, B. S.

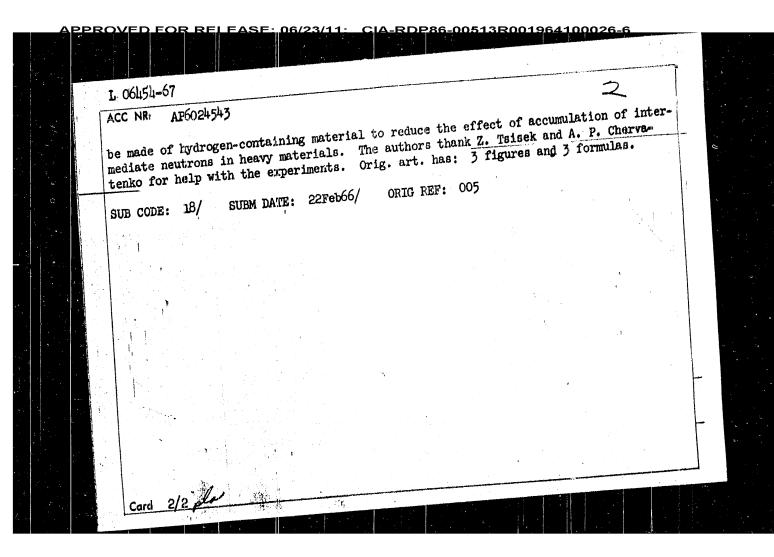
TITLE: Bhielding parameters of concretes 16

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 303-307

TOPIC TAGS: concrete, neutron shielding, radiation shielding, neutron absorption, neutron cross section, games ray absorption

ABSTRACT: On the basis of literature data, a survey of the shielding parameters of concretes is given in the form of graphs and tables. The chemical composition of the basic materials used as fillers for concretes and some of their shielding parameters are tabulated. Another table lists the mass attenuation factors for I radiation (which are the same for most of these materials except water, borate ore, boron carbide, baryta, and steel). A nomogram for the calculation of removal cross sections of fast nautrons in concretes and a table of macroscopic neutron removal cross sections of the elements included in the composition of the concretes are given; Other illustrated relationships are the variation of the inelastic interaction cross section of ultrafest neutrons with the iron content of concretes, and the dependence of thermal neutron absorption cross

ZAYTSEV, N.G. (Petrozavodsk); LEBEDEV, V.A. (Petrozavodsk) Organization of communications between the dispatcher station and the computer center. Elektrichestvo no.10:52-54 0 '64. (MIRA 17:12)



L 06\15\1-67 EWT(m)/EWP(t)/ETI LIP(e) JD/JR
ACC NR. AP6024543 BOUNCE CODE: UN/0089/66/021/001/0056/0057

AUTHOR: Zaytsev, L. N.; Komochkov, M. M.; Mal'kov, V. V.; Cherevatenko, Yem P.; 35 Sychev, B. J.

ORG: none

TITLE: Attenuation of high-energy neutron fluxes by heterogeneous shields

SOURCE: Atomnaya energiya, v. 21, no. 1, 1966, 56-57

TOPIC TAGS: reactor shielding, reactor neutron flux, neutron absorption

ABSTRACT: The authors present results of experimental investigations of the distribution of neutron fluxes of varying energy groups in layered shields. The investigations were made with the CIYAI synchrocyclotron in a neutron flux obtained by bombarding a beryllium target with 660-Mev protons. The geometry of the experiment is described elsewhere (Atomanaya energiya v. 12, 525, 1962). The neutron fluxes were registered with threshold detectors of In¹¹⁵, P³¹, and C¹², which were briefly described earlier (Atomanaya energiya v. 20, 323, 1966). X ray films of individual gamma dosimeters were also used. The following shield combinations were used: iron water, iron - heavy concrete, and water - iron - water. An analysis of the measured attenuation produced by these shields leads to the conclusion that the presence of the first layer does not influence the character of attenuation of the neutron flux in the second layer. Secondary effects connected with resonant neutrons produced at the boundary of the two materials are discussed. It is recommended that the second layer

Card 1/2

VDC: 621.039.512.45

Methods of making concrete blocks...

S/097/62/000/005/001/001 D034/D113

satisfactory. For experimental purposes type "100" concrete was used for making 2xlxl-m blocks, weighing 4.6 t with their lateral sides shaped in the form of keys and keyways. The vertical seams had a shielding ability equal to that of the horizontal seams. The shielding equivalency of walls made of precast concrete blocks and of monolithic concrete was confirmed by physical calculations made at the Laboratory for Nuclear Problems at the Olyal. A description is given of the process of manufacturing the precast blocks using a box formwork method in which diaphragms are used for shaping the lateral sides of the blocks. The system has important technical and economical advantages. There are 8 figures and 2 tables. The most important English-language reference is: E. Calan, Concrete for Radiation Shielding, "Journal of the American Concrete Institute", v. 25, No. 1, 1953.

Card 2/2

s/097/62/000/005/001/001 D034/D113

AUTHOR:

Zaytsev, L.N., Engineer

TITLE:

Methods of making concrete blocks for the shielding walls of

buildings housing nuclear reactors and accelerators

PERIODICAL: Beton i zhelezobeton, no. 5, 1962, 227-230

TEXT: Until recently the shielding walls of nuclear reactors were made of monolithic or reinforced concrete. The trend is to use separate concrete blocks together with a dense mortar forming the seams. B. Price (Prays) et al. (Zashchita ot yadernykh izlucheniy [Protection against nuclear radiation]. Izdatel stvo inostrannoy literatury, 1959) state that variations in the concrete density near the working horizontal seam produce a negligible increase in the radiation dose. On this basis, at the Beloyarskaya atomnaya elektrostantsiya (Beloyarskoye Nuclear Electric Power Plant) the shielding wall was made of precast concrete blocks, measuring 1.855x1.785x1.850 m and weighing 13.6 t, which were placed on a heavy solution mortar, forming a 1-cm-thick seam. The seam density checked with a gamma-installation was

Card 1/2

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ACC NR AP8013737

groups were tested in the concrete containing 0.35 mt of hydrogen. In addition, the behavior of intermediate neutrons was investigated for 0.7 and lwt. of hydrogen content. A table is presented giving neutron attenuation lengths (λ , kg/m²) for concrete of 1500 to 5000 kg/sq m thickness with respect to various energy levels of protons bombarding a beryllium target. The table contains also the calculated ratio λ (where λ is the length of inelastic interaction with neutron nuclei of energy higher than 100 MeV). The authors conclude that the attenuation of high-energy neutrons λ (several hundred MeV) is characterized by the relaxation length defined by the equation: $\lambda \approx (.3 \pm 0.1) \lambda_{\rm in}$. The factors characterizing the accumulation of intermediate neutrons in concrete with various hydrogen contents are also presented in a table.

SUB CODE: 18,20 / SUBM DATE: 18Nov65 / ORIG REF: 003 / OTH REF: 000

c__ 2/2 rp

ALU NKI AF8013757 (A) SOURCE GODN: UR/0089/66/020/004/0355/0356 AUTHOR: Sychev, B. S.; Mal'kov, V. V.; Komochkov, M. M.; Zaytsev, L. N. None ORG: Passage of high-energy neutrons through a heavy concrete shielding SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 355-356 TOPIC TAGS: neutron energy distribution, neutron shielding, nuclear shielding . concrete ABSTRACT: The authors present in a brief form the results of their experiments, conducted in the OIYaI synchrocyclotron laboratory, on shielding consisting of a series of slabs (53 mm thick). The slabs are made of heavy (hematite) concrete having a density of 3480 kg/cu m. The chemical composition of concrete slabs is given, being expressed in percent by weight. The content of hydrogenia 0.35wt. 1. The experimental data characterizing the neutron attenuation for different energy groups are plotted for various concrete thicknesses (up to 4000 kg/sq m). The neutron groups include high-energy neutrons (EF20 Mev), fast neutrons 2 to 20 Mev), intermediate neutrons (E about 1.44 ev). These three UDC: 621.039.512.45

> L 28845_66 ACC NR AP8013737

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100026-6

ACC NR: AM6023941 TABLE OF CONTENTS [abridged]: Ch. 1. General Information on Biological Shields for Nuclear Installations -- 5 Ch. 2. Reactors and Accelerators as Radiation Sources -- 31 Ch. 3. Calculation of the Attenuation of Medium-Energy Neutron and Gamma-Quantum Fluxes in Shieldings -- 74 Ch. 4. Calculation of Attenuation of Radiation from High-Energy Particle Accelerators -- 100 Ch. 5. Penetration of Neutrons Through Concretes -- 122 Ch. 6. Gamma-Radiation Penetration Through Concretes and Formation in Concretes -- 162 Ch. 7. Radiation Heating of Concrete Shieldings -- 180 Ch. 8. Some Problems in Optimal-Shield Selection -- 211 Appendices -- 229 SUB CODE: 18// SUBM DATE: 16Feb66/ ORIG REF: 108/ OTH REF: 116 **Card 2/2**

EPE(n)-2/EMA(h)/EMP(a)/EMI(n)/ETC(1)/EMG(m)/EMA(1)

ACC NR: AM6023941

Monograph

UR./

Broder, D. L.; Zaytsev, L. N.; Komochkov, M. H. Mal'kov, V. V.; Sychev, B. S.

Concrete in the shielding of nuclear installations (Beton v zashchite yadernykh ustanovok) Moscow, Atomizdat, 1966. 239 p. illus., biblio., tables. 2050 copies printed.

TOPIC TAGS: accelerator, concrete, nuclear engineering, nuclear radiation, radiation shielding, reactor shielding

PURPOSE AND COVERAGE: This book is intended for designers of nuclear devices and readers working in the nuclear industry. Methods and techniques for swift evaluation of various nuclear shieldings are presented. Approximate methods of calculating concrete shieldings are covered in the following sequence: the determination of emitted radiation and its distribution, of the distribution of radiation fluxes along the thickness of the shield, and of the permissible radiation levels beyond the shield. Particular attention is given to the shieldings of high-power accelerators. Part. A. N. Komarovskiy and Docent V. B. Dubrovskiy provided advice, and A. '. Kudryavtseva, A. M. Tugolukov, V. S. Kiselev, and P. A. Lavdanskir cooperated.

Card 1/2

UDC: 621,039,538

ZAYTOEV, L.M. %drcomyl group. Zhur. neorg. khim. 10 no.7:1581-1584 Jl 165. (MIRA 18:8) 1. Institut obshehey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

ZAYTSEV, L.M.; FOCHKAREV, G.S.; KOZHENKOVA, V.N. Polynuclear zirconlum compounds. Zhur. neorg. khim. 10 nc.5:1088-1096 My 165. (MIRA 18:6) 1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

ZAYTSEV, L.M.; BOCHKAREV, G.S. Formation of oxo bridges in zirconium compounds. Zhur. neorg. khim. 9 no.12:2715-2718 D '64. (MIRA 18:2) 1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

ZAYTSTV, L.M. Zirconyl oxalate and its derivatives. Thur, neorg, khim. 9 no.10: 2362-2374 0 164. Rehertor of the exalate group in complex compounds Ibid.:2375-2380 'MIRA 17:12) 1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR.

ZAYTSEV, L.M.; BOCHKAREV, G.S. Zirconyl oxalate solubility product. Zhur. neorg. khim. 9 no.9: 2122-2125 S 164. (MIRA 17:11) KHARITONOV, Yu.Ya.; ZAYTSEV, L.M.; BOCHKAREV, G.S.; YEVSTAF'YEVA, O.N.

Infrared absorption spectra of the complex compounds of zirconium (IV) with some oxygen-containing ligands. Zhur.
neorg. khim. 9 no.7:1617-1623 J1 '64. (MIRA 17:9)

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(Zirconyl oxalate)

Peculiarities of the behavior ...

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프로젝트 역사 계속 모든 게 스우리는 스트램 (1961년 1961년) 트립스트라 네트리트라?

Peculiarities of the behavior ...

S/078/62/007/004/004/016 B101/B144

The incomplete titration of the OH groups in the presence of KF is explained by dehydration and formation of binuclear compounds:

$$\begin{array}{c} \text{(NH_4)_2} \\ \text{Ba} \\ \text{(Na_2)} \end{array} \\ \begin{array}{c} \text{H_2O} \\ \text{C_2O_4} = \text{a. Zr} - \text{O} - \text{Zr} = \text{C_2O_4} \\ \text{HOOH HOOH} \end{array} \\ \begin{array}{c} -2\text{H_4O} \\ +2\text{H_4O} \\ \text{O} \end{array} \\ \end{array} \\ \begin{array}{c} \text{C_2O_4} = \text{Zr} - \text{O} - \text{Zr} = \text{C_2O_4} \\ \text{0} \\ \text{O} \end{array} \right]^{1}$$

Condensation intensity depends on temperature, pH, and Zr concentration. This explains the amounts of g-equiv. OH /g-atom Zr varying between 1 and 2. The zirconium hydroxide precipitated with NH3 from methanolic solution of ZrOCl2 gave also ~ 3 g-equiv. OH /g-atom Zr corresponding to the formula (OH) $_3$ Zr-O-Zr(OH) $_3$. The Zr $_2$ O $_3$ ion mentioned in publications is to define

as an dizirconyl oxide. There are 3 figures and 6 tables. The most important English-language reference is: B. Lister. M. McDonald, J. Chem. Soc., 4315 (1952).

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